ELSEVIER

International Journal of Mass Spectrometry 194 (1999) 289

International Journal of Mass Spectrometry

Author index

Arnold, F., 53

Bandura, D., L1
Baranov, V., L1
Basic, C., 121
Blanksby, S.J., 165
Böhme, D.K., L1
Born, M., 103
Boryak, O.A., 49
Bowie, J.H., 165
Butman, M.F., 69

Cacace, F., 1
Chalk, A.J., 181
Cooks, R.G., 225

Davis, T.P., 209
de Petris, G., 1
Dinca, A., 209
Dua, S., 165

Feng, W.Y., 93
Fenn, J.B., 187
Fisher, K.J., 209
Foote, S., 145
Fujii, T., 75
Futrell, J., 171

Grimm, F., 53
Gross, M.L., 247

Iannitti-Tito, P., 269
Ingemann, S., 103

Khairallah, G., 115
Kiendler, A., 53
Kishi, H., 75
Kosevich, M.V., 49
Koyanagi, G.K., L1
Kudin, L.S., 69

Lavrov, V.V., L1
Lei, W., 41
Lifshitz, C., 93
Ling, Y., 93

MacPherson, K.A., 235
March, R.E., 235
Mayer, P.M., 181
McLaren, J.W., L1
Mercer, R.S., 235
Michalak, L., 85
Molina, L.T., 41
Molina, M.J., 41
Morrison, R.J.S., 133
Munir, Z.A., 69

Ngoka, L.C.M., 247
Nibbering, N.M.M., 103

O'Hair, R.A.J., 145
Orlov, V.V., 49

Peel, J.B., 115
Pelc, A., 85
Plomley, J.B., 235

Radom, L., 181
Reid, G.E., 145
Reiner, E.J., 235
Reiner, T., 53

Schalley, C.A., 11
Sheil, M.M., 269
Shelkovsky, V.S., 49
Shukla, A., 171
Smirnov, A.A., 69
Smith, D.R., 209
Splendore, M., 235

Tanner, S., L1
Thomas, P.D., 133
Traeger, J.C., 261

Viidanoja, J., 53
Vrkic, A.K., 145

Waddell, D.S., 235
Wang, J., 171
Weil, C., 225
Weimann, A., 269
Wells, J.M., 225
Willett, G.D., 209
Wollnik, H., 225

Yost, R.A., 121

Zhan, D., 187
Zhang, R., 41
Zhou, X., 171
Zhu, C., 93

ELSEVIER

International Journal of Mass Spectrometry 194 (1999) 291–295

International Journal of Mass Spectrometry

Subject index

n-Alkylbenzenes
Collision-induced dissociation breakdown surfaces for *n*-alkylbenzene molecular ions in a quadrupole ion trap mass spectrometer, 121
Atmospheric chemistry
Mass spectrometric study of simple main group molecules and ions important in atmospheric processes, 1

Breakdown surfaces
Collision-induced dissociation breakdown surfaces for *n*-alkylbenzene molecular ions in a quadrupole ion trap mass spectrometer, 121

Carbon disulphide
Production of carbon disulphide dimers by an adiabatic gas expansion method, 85
Carboxylic acids
Laboratory investigations of negative ion molecule reactions of propionic, butyric, glyoxylic, pyruvic, and pinonic acids, 53
$[C_3H_8N]^+$
Rearrangement and fragmentation pathways of $[C_3H_7Z]^+$ ions (Z = NH and S): are ion-neutral complexes important?, 181
$[C_3H_7S]^+$
Rearrangement and fragmentation pathways of $[C_3H_7Z]^+$ ions (Z = NH and S): are ion-neutral complexes important?, 181
Chemical ionization
Ion transmission and ion/molecule separation using an electrostatic ion guide in chemistry ionization mass spectrometry, 41
Laboratory investigations of negative ion molecule reactions of propionic, butyric, glyoxylic, pyruvic, and pinonic acids, 53
Chlorine chemistry
Mass spectrometric study of simple main group molecules and ions important in atmospheric processes, 1
Collision-activated dissociation
A comparison of three mass spectrometric methods for the determination of dioxins/furans, 235
Collision-induced dissociation
Collision-induced dissociation breakdown surfaces for *n*-alkylbenzene molecular ions in a quadrupole ion trap mass spectrometer, 121
A tandem mass spectrometry study of the role of electronically excited states in the collision-induced dissociation of the hexafluorobenzene molecular cation, 171
Cyclic peptide
Multistep collisionally activated decomposition in an ion trap for the determination of the amino-acid sequence and gas-phase ion chemistry of lithium-coordinated valinomycin, 247

Density functional theory (DFT)
Multiply hydrogen bonded complexes in ether systems: combining experiments with density functional theory calculations, 93
Dimethylketene
Neutral and cationic heats of formation for ketene, methylketene, and dimethylketene, 261
Doubly charged metal ions
Production of doubly charged clusters $(H_2O)_n \cdot Ba^{2+}$ and $(H_2O)_n \cdot Ca^{2+}$ under low temperature fast atom bombardment conditions, 49

Electronic excitation
A tandem mass spectrometry study of the role of electronically excited states in the collision-induced dissociation of the hexafluorobenzene molecular cation, 171
Electron impact fragmentation
Influence of surface charge field on the electron impact fragmentation pattern of KCl molecules in the free surface vaporization of single crystals, 69
Electrospray
Cyano adduct anions of higher fullerenes: electrospray mass spectrometric studies, 115
Electrospray ionisation
Characterisation of product ions in high-energy tandem mass spectra of protonated oligonucleotides formed by electrospray ionisation, 269
Electrospray mass spectrometry of fossil fuels, 197
Electrostatic ion guide

Ion transmission and ion/molecule separation using an electrostatic ion guide in chemistry ionization mass spectrometry, 41
Energy transfer
A tandem mass spectrometry study of the role of electronically excited states in the collision-induced dissociation of the hexafluorobenzene molecular cation, 171
Enthalpies of formation
Thermochemical properties of halogen-substituted methanes, methyl radicals, and carbenes in the gas phase, 103

$Fe(CO)_5$
Internal energy deposition through collision of hyperthermal neutral molecules with energies up to 5 eV with a surface, 75
Fossil fuels
Electrospray mass spectrometry of fossil fuels, 197
Fourier transform ion cyclotron resonance
Gas phase reactions of VO^+ with methyl methacrylates as studied by Fourier transform ion cyclotron resonance mass spectrometry, 209
Thermochemical properties of halogen-substituted methanes, methyl radicals, and carbenes in the gas phase, 103
Fullerene
Cyano adduct anions of higher fullerenes: electrospray mass spectrometric studies, 115
Fullerene adducts
Cyano adduct anions of higher fullerenes: electrospray mass spectrometric studies, 115

G2
Rearrangement and fragmentation pathways of $[C_3H_7Z]^+$ ions (Z = NH and S): are ion-neutral complexes important?, 181
Gaseous cluster
Production of carbon disulphide dimers by an adiabatic gas expansion method, 85
Gas-phase acidities
Thermochemical properties of halogen-substituted methanes, methyl radicals, and carbenes in the gas phase, 103
Gas-phase ion chemistry
A novel inductively coupled plasma/selected-ion flow tube mass spectrometer for the study of reactions of atomic and atomic oxide ions, L1

Halogen-substituted carbenes
Thermochemical properties of halogen-substituted methanes, methyl radicals, and carbenes in the gas phase, 103
Heat of formation
Neutral and cationic heats of formation for ketene, methylketene, and dimethylketene, 261
Rearrangement and fragmentation pathways of $[C_3H_7Z]^+$ ions (Z = NH and S): are ion-neutral complexes important?, 181
Hexafluorobenzene cation
A tandem mass spectrometry study of the role of electronically excited states in the collision-induced dissociation of the hexafluorobenzene molecular cation, 171
High resolution mass spectrometry
A comparison of three mass spectrometric methods for the determination of dioxins/furans, 235
Host-guest complexes
Supramolecular chemistry goes gas phase: the mass spectrometric examination of noncovalent interactions in host-guest chemistry and molecular recognition, 11
Hydrate clusters
Production of doubly charged clusters $(H_2O)_n \cdot Ba^{2+}$ and $(H_2O)_n \cdot Ca^{2+}$ under low temperature fast atom bombardment conditions, 49

Inductively coupled plasma (ICP)
A novel inductively coupled plasma/selected-ion flow tube mass spectrometer for the study of reactions of atomic and atomic oxide ions, L1
Internal energy
Internal energy deposition through collision of hyperthermal neutral molecules with energies up to 5 eV with a surface, 75
Ion complexes
Multiply hydrogen bonded complexes in ether systems: combining experiments with density functional theory calculations, 93
Ion-molecule reactions
Gas phase reactions of VO^+ with methyl methacrylates as studied by Fourier transform ion cyclotron resonance mass spectrometry, 209
Laboratory investigations of negative ion molecule reactions of propionic, butyric, glyoxylic, pyruvic, and pinonic acids, 53
Ion-molecule separation
Ion transmission and ion/molecule separation using an electrostatic ion guide in chemistry ionization mass spectrometry, 41
Ion motion
Axial ion motion within the quadrupole ion trap elucidated by dc pulse tomography, 225
Ion-neutral complex
Rearrangement and fragmentation pathways of $[C_3H_7Z]^+$ ions (Z = NH and S): are ion-neutral complexes important?, 181
Ion thermometers
Collision-induced dissociation breakdown surfaces for *n*-alkylbenzene molecular ions in a quadrupole ion trap mass spectrometer, 121

Ion-transmission efficiency
Ion transmission and ion/molecule separation using an electrostatic ion guide in chemistry ionization mass spectrometry, 41
Ion trap
Axial ion motion within the quadrupole ion trap elucidated by dc pulse tomography, 225
Multistep collisionally activated decomposition in an ion trap for the determination of the amino-acid sequence and gas-phase ion chemistry of lithium-coordinated valinomycin, 247

Ketene
Neutral and cationic heats of formation for ketene, methylketene, and dimethylketene, 261
Kinetic energy release
A tandem mass spectrometry study of the role of electronically excited states in the collision-induced dissociation of the hexafluorobenzene molecular cation, 171
Kinetic method
Measurement of the proton affinities of some methyl substituted pyrimidines via the kinetic method on a pentaquadrupole mass spectrometer, 133
Kinetics
A novel inductively coupled plasma/selected-ion flow tube mass spectrometer for the study of reactions of atomic and atomic oxide ions, L1

Laser ablation
Gas phase reactions of VO^+ with methyl methacrylates as studied by Fourier transform ion cyclotron resonance mass spectrometry, 209
Lithium-complexed structure
Multistep collisionally activated decomposition in an ion trap for the determination of the amino-acid sequence and gas-phase ion chemistry of lithium-coordinated valinomycin, 247
Low temperature fast atom bombardment
Production of doubly charged clusters $(H_2O)_n \cdot Ba^{2+}$ and $(H_2O)_n \cdot Ca^{2+}$ under low temperature fast atom bombardment conditions, 49

Mass spectrometry
A comparison of three mass spectrometric methods for the determination of dioxins/furans, 235
Cyano adduct anions of higher fullerenes: electrospray mass spectrometric studies, 115
Electrospray mass spectrometry of fossil fuels, 197
Influence of surface charge field on the electron impact fragmentation pattern of KC1 molecules in the free surface vaporization of single crystals, 69
Supramolecular chemistry goes gas phase: the mass spectrometric examination of noncovalent interactions in host-guest chemistry and molecular recognition, 11
Matrix-assisted laser desorption ionisation
Characterisation of product ions in high-energy tandem mass spectra of protonated oligonucleotides formed by electrospray ionisation, 269
Metastable ion
Rearrangement and fragmentation pathways of $[C_3H_7Z]^+$ ions (Z = NH and S): are ion-neutral complexes important?, 181
Methyl isobutyrate
Gas phase reactions of VO^+ with methyl methacrylates as studied by Fourier transform ion cyclotron resonance mass spectrometry, 209
Methylketene
Neutral and cationic heats of formation for ketene, methylketene, and dimethylketene, 261
Methyl methacrylate
Gas phase reactions of VO^+ with methyl methacrylates as studied by Fourier transform ion cyclotron resonance mass spectrometry, 209
Molecule/surface collision
Internal energy deposition through collision of hyperthermal neutral molecules with energies up to 5 eV with a surface, 75
MS^n
Multistep collisionally activated decomposition in an ion trap for the determination of the amino-acid sequence and gas-phase ion chemistry of lithium-coordinated valinomycin, 247

Negative ion
Cyano adduct anions of higher fullerenes: electrospray mass spectrometric studies, 115
NO_x chemistry
Mass spectrometric study of simple main group molecules and ions important in atmospheric processes, 1

Ozone chemistry
Mass spectrometric study of simple main group molecules and ions important in atmospheric processes, 1
Ozone/halocarbon ionization
Mass spectrometric study of simple main group molecules and ions important in atmospheric processes, 1

Pentaquadrupole
Measurement of the proton affinities of some methyl substituted pyrimidines via the kinetic method on a pentaquadrupole mass spectrometer, 133

Photoionization
Neutral and cationic heats of formation for ketene, methylketene, and dimethylketene, 261
Poly-chlorodibenzo-*p*-dioxins/furans
A comparison of three mass spectrometric methods for the determination of dioxins/furans, 235
Potassium chloride
Influence of surface charge field on the electron impact fragmentation pattern of KCl molecules in the free surface vaporization of single crystals, 69
Proton affinity
Measurement of the proton affinities of some methyl substituted pyrimidines via the kinetic method on a pentaquadrupole mass spectrometer, 133
Protonated oligonucleotides
Characterisation of product ions in high-energy tandem mass spectra of protonated oligonucleotides formed by electrospray ionization, 269
Fragmentation reactions of all 64 protonated trimer oligodeoxynucleotides and 16 mixed base tetramer oligodeoxynucleotides via tandem mass spectrometry in an ion trap, 145
Proton bound clusters
Multiply hydrogen bonded complexes in ether systems: combining experiments with density functional theory calculations, 93
Pyrimidine
Measurement of the proton affinities of some methyl substituted pyrimidines via the kinetic method on a pentaquadrupole mass spectrometer, 133

Quadrupole ion trap
Axial ion motion within the quadrupole ion trap elucidated by dc pulse tomography, 225
Characterisation of product ions in high-energy tandem mass spectra of protonated oligonucleotides formed by electrospray ionization, 269
Collision-induced dissociation breakdown surfaces for *n*-alkylbenzene molecular ions in a quadrupole ion trap mass spectrometer, 121
A comparison of three mass spectrometric methods for the determination of dioxins/furans, 235

Radical anions
Thermochemical properties of halogen-substituted methanes, methyl radicals, and carbenes in the gas phase, 103
Rearrangement
Electron capture of tetracyanoethylene oxide in the gas phase. Rearrangement of the parent radical anion to form $[(NC)_3C]-$. A joint experimental and ab initio study, 165
ReO_2
Internal energy deposition through collision of hyperthermal neutral molecules with energies up to 5 eV with a surface, 75
RRKM
Multiply hydrogen bonded complexes in ether systems: combining experiments with density functional theory calculations, 93
Rearrangement and fragmentation pathways of $[C_3H_7Z]^+$ ions (Z = NH and S): are ion-neutral complexes important?, 181

Secular frequency
Axial ion motion within the quadrupole ion trap elucidated by dc pulse tomography, 225
Selected-ion flow tube (SIFT)
Multiply hydrogen bonded complexes in ether systems: combining experiments with density functional theory calculations, 93
A novel inductively coupled plasma/selected-ion flow tube mass spectrometer for the study of reactions of atomic and atomic oxide ions, L1
Sequencing
Fragmentation reactions of all 64 protonated trimer oligodeoxynucleotides and 16 mixed base tetramer oligodeoxynucleotides via tandem mass spectrometry in an ion trap, 145
Multistep collisionally activated decomposition in an ion trap for the determination of the amino-acid sequence and gas-phase ion chemistry of lithium-coordinated valinomycin, 247
Simulation
Axial ion motion within the quadrupole ion trap elucidated by dc pulse tomography, 225
Single crystal
Influence of surface charge field on the electron impact fragmentation pattern of KCl molecules in the free surface vaporization of single crystals, 69
Sublimation
Influence of surface charge field on the electron impact fragmentation pattern of KCl molecules in the free surface vaporization of single crystals, 69
Supramolecular chemistry
Supramolecular chemistry goes gas phase: the mass spectrometric examination of noncovalent interactions in host-guest chemistry and molecular recognition, 11
Surface charge
Influence of surface charge field on the electron impact fragmentation pattern of KCl molecules in the free surface vaporization of single crystals, 69

Surface ionization
Internal energy deposition through collision of hyperthermal neutral molecules with energies up to 5 eV with a surface, 75

Tandem mass spectrometry
Characterisation of product ions in high-energy tandem mass spectra of protonated oligonucleotides formed by electrospray ionization, 269
A comparison of three mass spectrometric methods for the determination of dioxins/furans, 235
Fragmentation reactions of all 64 protonated trimer oligodeoxynucleotides and 16 mixed base tetramer oligodeoxynucleotides via tandem mass spectrometry in an ion trap, 145
Measurement of the proton affinities of some methyl substituted pyrimidines via the kinetic method on a pentaquadrupole mass spectrometer, 133
A tandem mass spectrometry study of the role of electronically excited states in the collision-induced dissociation of the hexafluorobenzene molecular cation, 171

Tetracyanoethylene oxide radical anion
Electron capture of tetracyanoethylene oxide in the gas phase. Rearrangement of the parent radical anion to form $[(NC)_3C]-$. A joint experimental and ab initio study, 165

Tricyanomethyl anion
Electron capture of tetracyanoethylene oxide in the gas phase. Rearrangement of the parent radical anion to form $[(NC)_3C]-$. A joint experimental and ab initio study, 165

Triple-stage quadrupole
A comparison of three mass spectrometric methods for the determination of dioxins/furans, 235

Tropospheric trace constituents
Laboratory investigations of negative ion molecule reactions of propionic, butyric, glyoxylic, pyruvic, and pinonic acids, 53

Vanadium monoxide cation
Gas phase reactions of VO^+ with methyl methacrylates as studied by Fourier transform ion cyclotron resonance mass spectrometry, 209